



Missouri Department of Natural Resources

PUBLIC NOTICE

APPLICATION FOR MISSOURI STATE OPERATING PERMIT

DATE: September 15, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed effluent limitations and/or determinations are invited to submit them in writing to the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, MO 63552, ATTN: G. Irene Crawford, Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by October 16, 2006, or received in our office by 5:00 p.m. on October 19, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/index.html>, or at the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, Missouri 63552.

Public Notice Date: September 15, 2006
Permit Number: MO-0104337
Northeast Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Kraft Foods Global – Columbia 4600 Waco Road Columbia, MO 65202	Kraft Food, Inc. Three Lakes Drive Northfield, IL 60093
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
Unnamed tributary to Hinkson Creek (U) Hinkson Creek (C) (01008) 303(d) Sec. 21, T49N, R12W, Boone County	Industrial, reissuance

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.

MO-0104337

Owner:

Kraft Foods, Inc

Address:

Three Lakes Drive, Northfield, IL 60093

Continuing Authority:

Same as above

Address:

Same as above

Facility Name:

Kraft Foods Global - Columbia

Facility Address:

4600 Waco Road, Columbia, MO 65202

Legal Description:

SE ¼, SE ¼, Sec. 21, T49N, R12W; Boone County

Latitude/Longitude:

SEE PAGE TWO

Receiving Stream:

Unnamed tributary to Hinkson Creek (U)

First Classified Stream and ID:

Hinkson Creek (C) (01008) 303(d)

USGS Basin & Sub-watershed No.:

(10300102 - 120001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

SEE PAGE 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

A handwritten signature in black ink, reading "Doyle Childers".

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date

G. Irene Crawford, Director, Northeast Regional Office

FACILITY DESCRIPTION (continued)

Outfall #001A – Food Processing – SIC # 2013

Non-contact cooling water

Latitude/Longitude: +3900388/-09216024

Design flow is 10,000 gallons per day

Actual flow is 2,000 gallons per day

Outfall # 001B – Storm water runoff – SIC # 2013

Latitude/Longitude: +3900391/-09215585

Design flow is 100,000 gallons per day

Actual flow is 10,700 gallons per day

Outfall # 002 – Storm water runoff – SIC # 2013

Latitude/Longitude: +3900344/-09216078

Design flow is 37,000 gallons per day

Actual flow is 3,700 gallons per day

Outfall # 003 – Storm water runoff – SIC # 2013

Latitude/Longitude: +3900323/-09216004

Design flow is 140,000 gallons per day

Actual flow is 14,000 gallons per day

Outfall # 004 – Storm water runoff – SIC # 2013

Latitude/Longitude: +3900337/-09215564

Design flow is 130,500 gallons per day

Actual flow is 13,050 gallons per day.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0104337	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
(OUTFALL NUMBER AND EFFLUENT PARAMETERS)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001A</u>						
Flow	MGD	*		*	once/month	24 Hr. estimate
Temperature	°C				once/month	grab
Biochemical Oxygen Demand ₅	mg/L		45	30	once/month	grab
Total Suspended Solids	mg/L		45	30	once/month	grab
pH – Units	SU	**		**	once/month	grab
Total Residual Chlorine (Note 1)	mg/L	0.019 (.13ML)		0.01 (.13 ML)	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

(OUTFALL NUMBER AND EFFLUENT PARAMETERS)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001B, 002, 003 and 004 ***</u>						
Flow	MGD	*		*	once/ quarter	24 Hr. estimate
pH – Units	SU	**		**	once/ quarter	grab
Biochemical Oxygen Demand ₅	mg/L		45	30	once/ quarter	grab
Total Suspended Solids	mg/L		100	50	once/ quarter	grab
Oil and Grease	mg/L	15		10	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0 to 9.0 pH unit.
- *** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. Sampling shall occur once per quarter in the periods of January through March, April through June, July through September and October through December ; please note that monitoring reports shall be submitted no later than the 28th day of the month following the monitoring period(April 28th, July 28th, October 28th and January 28th respectively). If a precipitation event does not occur within the reporting period, report as “no discharge”. For tracking purposes samples taken anytime within the first quarter

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)

(January through March) will be recorded by the department as though they were taken in March; samples taken anytime within the second quarter (April through June) will be recorded by the department as though they were taken in June; samples taken anytime within the third quarter (July through September) will be recorded by the department as though they were taken in September and samples taken in the fourth quarter (October through December) will be recorded by the department as though they were taken in December.

Note 1 - This permit contains a Total Residual Chlorine (TRC) limit.

This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500-CL G. from Standard Methods for the Examination of Water and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances.

The permittee shall notify the Director as soon as it knows or has reason to believe:

 - a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
 - c. That the effluent limit established in part A of the permit will be exceeded.
5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards.

- a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

Date of Fact Sheet: May 4, 2006

Date of Public Notice: September 15, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0104337

FACILITY NAME: Kraft Foods Global - Columbia

OWNER NAME: Kraft Foods, Inc.

LOCATION: SE ¼, SE ¼, Sec. 21, T49N, R12W; Boone County:

RECEIVING STREAM: Unnamed tributary to Hinkson Creek

FACILITY CONTACT PERSON: John Wulff TELEPHONE: (573) 474 - 9477

FACILITY DESCRIPTION AND RATIONALE

This facility has been allowed by previous permits to blend untreated, non-contact, cooling water with storm water and sample at discharge point # 001. This permit requires that the non-contact cooling water be sampled and reported at discharge point # 001A and storm water previously sampled at point # 001, be sampled and reported at discharge point # 001B, before mixing occurs. Standard technology based limits for BOD₅, TSS and pH from 10 CSR 20-7.015 are assumed to protect the receiving stream from discharges from point #001A based on the small size of the proposed discharge. However, other nearby discharges may negate that assumption. Water Quality based limits for total residual chlorine (TRC) and oil and grease, from 10 CSR 20-7.031 Table A have been included due the levels of TRC and oil and grease obtained during previous monitoring episodes which show a “reasonable potential” for state water quality standards to be exceeded.

Discharges from discharge points #001B, 002, 003, and 004 are storm water from various parts of the property, outside of the production areas. The storm water discharges also report to Hinkson Creek. Standard technology based limits for BOD₅ and pH from 10 CSR 20-7.015 are assumed to protect the receiving stream from the storm water releases. However, other nearby discharges may negate that assumption. Water quality based limits for oil and grease from 10 CSR 20-7.031 Table A have been added due to the results of monitoring provided with the permit application, which show a “reasonable potential” for state water quality limits to be exceeded. Limits for total suspended solids were obtained from the previous permit and found to have been used on other similar permits.

All four discharge points report to an unnamed tributary to Hinkson Creek, an unclassified stream. Hinkson Creek is approximately ¾ mile downstream and is on the state 303(d) list for “unknown” pollutants. The permit should contain a “re-opener clause” to address potential water quality issues should the pollutants affecting Hinkson Creek become known, and the monitoring data generated as a result of this permit, or other monitoring data indicate water quality standards are being exceeded, due at least in part to this discharge.

This permit will be issued for a period of five years.